

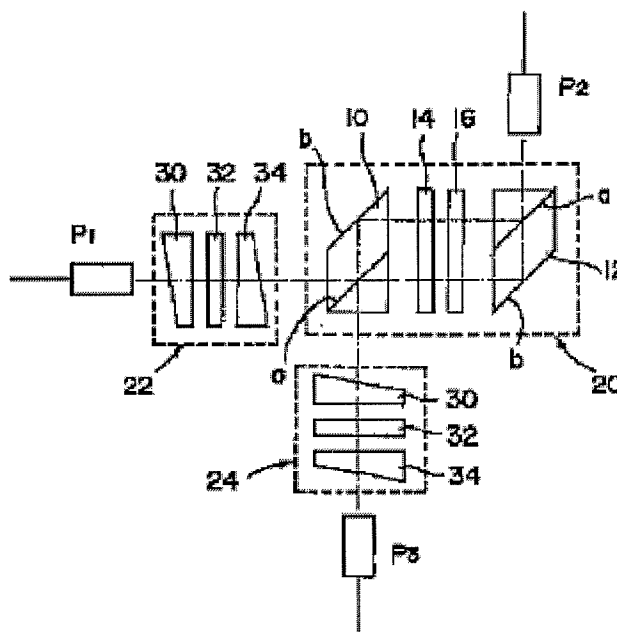
### 3 PORT TYPE OPTICAL CIRCULATOR

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#### Abstract of JP11038363

**PROBLEM TO BE SOLVED:** To make it possible to realize a high isolation characteristic even if polarization prisms of a low extinction ratio are used. **SOLUTION:** This circulator is constituted by arranging a 45 deg. Faraday rotator 14 and a half-wave plate 16 between the first and second polarizing prisms 11 and 12, which internally have a polarized light separating film (a) and are provided with a reflection film (b) parallel therewith and coupling the exit light from a first port P1 to a second port P2 and coupling the exit light from the second port P2 to a third port P3. In such a case, an optical isolator unit 22, in which a polarizer 30 consisting of a wedge type refraction plate, an analyzer 34 consisting of the 45 deg. Faraday rotator 14 and, and a wedge type refraction plate, are arrayed in this order. Further, the similar optical isolator unit 22 is built between the first polarizing prism P1 and the third port P3 as well.



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